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(54) MAGNETIC RECORDING MEDIUM

(57)Abstract:

PURPOSE: To improve the dispersibility of magnetic powder and the surface characteristic of a magnetic layer and to obtain a magnetic recording medium having excellent durability and runnability and good magnetic characteristic and electromagnetic conversion characteristic by incorporating a specific polyurethane resin as a binder into the magnetic layer essentially consisting of ferromagnetic powder and binder.

CONSTITUTION: The polyurethane resin having a siloxane bond in the molecular chain and having at least one kind among a -SO₂M group, -OSO₂M group, -COOM group, -P(=O, side chain) (OM') group is used as the binder of the magnetic layer which consists essentially of the ferromagnetic powder and binder and is formed on a nonmagnetic base. M is hydrogen or alkali metal, M' is hydrogen, alkali metal or hydrocarbon group. The atm. of the polar group to be introduced into the polyurethane resin is preferably 0.01W1.0mmol/g and the concn. of the siloxane group is preferably 0.03W3mmol/g. The number average mol.wt. of the polyurethane resin is preferably 104W105.

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